

CLAIMS

1. A hoisting rope for a traction sheave elevator, the rope being designed to engage with the traction sheave as to receive the unbalance between the counterweight and the elevator car with its load to move these components, with the following features:

the rope is made of synthetic material;

5 the tensile strength of the rope is formed by longitudinal fibers arranged in the form of strands or in form of at least one fabric and are surrounded by a sheath that binds the strands/fibers of each rope together;

the rope having a band-like shape having a width substantially larger than its thickness.

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2. The hoisting rope according to claim 1, wherein the sheath is made of polyurethane.

3. The hoisting rope according to claim 1, wherein the sheath provides a good friction coefficient against the traction sheave.

4. The hoisting rope according to claim 1 wherein a planar surface of the sheath is coated with a layer of a wear-resistant material having a good friction coefficient to the material of the traction sheave.

5. The hoisting rope according to claim 1, wherein the rope comprises several bundles of strands which are placed apart from each other.

6. The hoisting rope according to claim 4, wherein the fibers are arranged in the form of a fabric.

7. The hoisting rope according to claim 6 wherein the fabric resembles the clinch-built, cross-ply structure of a belt.

8. The hoisting rope according to claim 6, wherein the fibers form in the cross-section of the hoisting rope lines crossing each other in both the longitudinal and lateral direction of the hoisting rope.
9. The hoisting rope according to claim 1, wherein the fibers are made of aramid.

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